

Title (en)
SURFACE-COATED CUTTING TOOL

Title (de)
OBERFLÄCHENBESCHICHTETES SCHNEIDWERKZEUG

Title (fr)
OUTIL DE DÉCOUPE AVEC REVÊTEMENT DE SURFACE

Publication
EP 3470153 B1 20220803 (EN)

Application
EP 17812921 A 20170217

Priority
• JP 2016117931 A 20160614
• JP 2017005796 W 20170217

Abstract (en)
[origin: EP3470153A1] A surface-coated cutting tool includes a substrate and a coating that is disposed on the substrate and formed so as to cover at least a portion of a flank face, in which the coating includes an inner layer and an outer layer formed on the inner layer, the inner layer is formed of at least one layer and includes an aluminum oxide layer as a layer in contact with the outer layer, the outer layer has a multilayer structure that includes three or more layers stacked on top of one another, and each of the layers that constitute the multilayer structure contains titanium.

IPC 8 full level
B23B 27/14 (2006.01); **B23B 51/00** (2006.01); **B23C 5/16** (2006.01); **B23D 77/00** (2006.01); **B23F 21/00** (2006.01); **B23G 5/06** (2006.01); **C23C 16/30** (2006.01); **C23C 16/32** (2006.01); **C23C 16/34** (2006.01); **C23C 16/36** (2006.01); **C23C 16/40** (2006.01); **C23C 28/00** (2006.01); **C23C 28/04** (2006.01)

CPC (source: EP KR US)
B23B 27/14 (2013.01 - EP US); **B23B 51/00** (2013.01 - EP US); **B23C 5/16** (2013.01 - EP US); **B23D 77/00** (2013.01 - EP US); **B23F 21/00** (2013.01 - EP US); **B23G 5/06** (2013.01 - EP US); **C22C 32/0052** (2013.01 - KR); **C23C 16/30** (2013.01 - EP US); **C23C 16/308** (2013.01 - EP); **C23C 16/32** (2013.01 - EP KR); **C23C 16/34** (2013.01 - EP KR); **C23C 16/347** (2013.01 - EP); **C23C 16/36** (2013.01 - EP); **C23C 16/403** (2013.01 - EP KR); **C23C 28/042** (2013.01 - EP); **C23C 28/044** (2013.01 - EP); **C23C 30/005** (2013.01 - KR); **B23B 2222/28** (2013.01 - KR US); **B23B 2228/10** (2013.01 - KR US); **B23B 2228/36** (2013.01 - KR); **B23C 2222/28** (2013.01 - KR); **B23C 2228/10** (2013.01 - KR); **C23C 28/042** (2013.01 - KR); **C23C 28/044** (2013.01 - KR)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3470153 A1 20190417; **EP 3470153 A4 20200226**; **EP 3470153 B1 20220803**; CN 109311099 A 20190205; CN 109311099 B 20200623; JP 2017221992 A 20171221; JP 6699056 B2 20200527; KR 20190005959 A 20190116; US 10987738 B2 20210427; US 2019232380 A1 20190801; WO 2017217012 A1 20171221

DOCDB simple family (application)
EP 17812921 A 20170217; CN 201780037325 A 20170217; JP 2016117931 A 20160614; JP 2017005796 W 20170217; KR 20187035629 A 20170217; US 201716308996 A 20170217